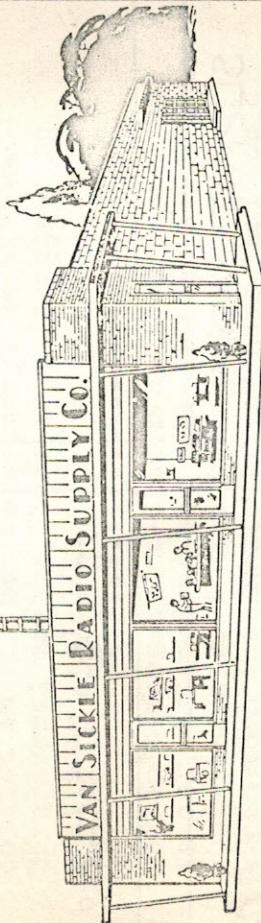


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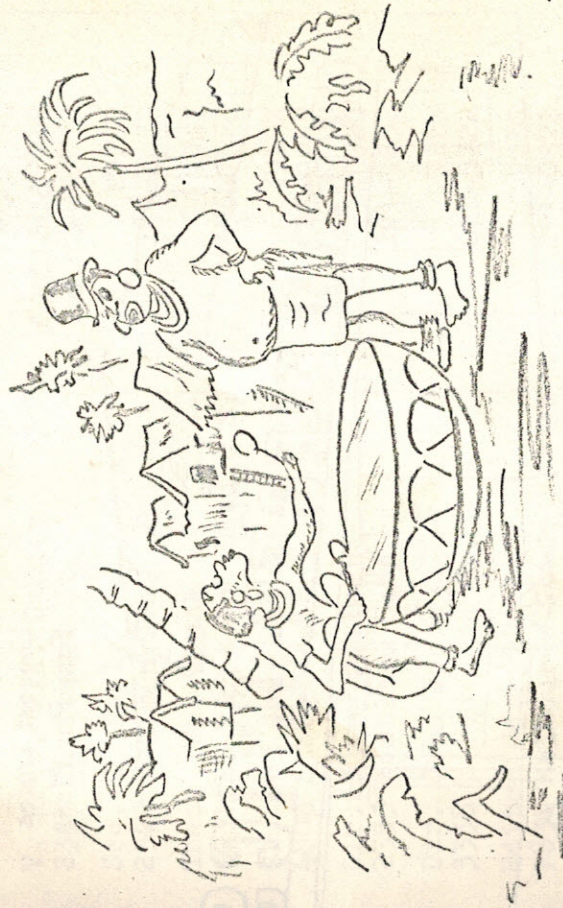
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MAY 1968



HOW MANY TIMES I GOTTA TELL YOU

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from Dec 63 AMCNEWS

Annual Dinner-Award Meeting

On March 8th a proposal was brought before the club members by your Secretary, and it was met with considerable enthusiasm by those present. There was considerable discussion on the idea and many helpful suggestions from the members. A motion was then made from the floor that the Indianapolis Radio Club hold an annual banquet on the fourth Friday in October for members and their wives and prospective members with the cost of the dinner to be borne by those attending. The motion was seconded and carried. A second motion was made that as a part of this program, the Indianapolis Radio Club establish an Amateur of the Year Award to be given to the member who in the opinion of the judges had contributed the most to the club and that the award be presented at the annual dinner. The motion was seconded and carried.

This is certainly a fine action taken by the club. As time goes by it would be well if award would be publicized in the papers and in Ama-Chewer. The Indianapolis Radio Club has existed and thrived through its half century by more and better programs for its members. Many clubs throughout the state and the country hold annual dinner and award meetings, and it is gratifying that the club has done the same.

Those of you who would like to participate in the selection of the member to be honored, please send your nomination to the secretary. A committee will be appointed in the near future to set up qualifications for nominees.

There are many former members who have not been to meetings for some time. We hope that you will again take an interest in club activities and attend. Help us make this October dinner a huge success as well as other programs coming in the future.

Ed Healy W9FJR

Program Review

March 22nd- Tonight's program started with a short talk by Joe Poston, K9GCE on the trials and tribulations of organizing a DX-pedition. Joe and three of his buddies are organizing a DX-pedition to Sint Maarten Netherland Antilles and Joe told of the difficulties of obtaining equipment and permission to operate.

A program on "A Look at What Really Happens in an Antenna" by Art Schultz, W9BR followed. Art explained how a charged particle in motion is necessary to create a field, and how such a particle creates not only an electromagnetic field, but also an electrostatic field at right angles to each other. Art told why a half wave dipole has a characteristic impedance of 72 ohms only if the wire is infinitesimally small and is mounted in outer space. Using only fundamental theory, he demonstrated why two half wave antennas fed in phase will fire broadside, and if fed out of phase will fire endwise in line with the two antennas. Art promises to go a little deeper into antenna theory in the near future (See Program Preview), and ended his talk by giving again the exam with which he started his talk. Everyone made a higher score on the second go 'round which should prove that Art is a capable teacher. (The exam will be used in place of this month's Noodle Nudger. Try it and see how you come out.)

Program Preview

April 26th- Indiana Bell Film
May 10th- Business meeting.
May 24th- Homebrew night- Get those projects finished and bring them along.
June 14th- Business meeting and more on Antennas or should I say Antennae by Art Schultz. Don't miss this one.
June 28th- Swap and Shop Auction- Start dusting off that surplus gear.
Sorry about the dates given for the April meetings in last month's issue. I hope no one showed up on Monday nights.....

Don Brewer, then with the Esterline-Angus Company was back to give another program for the club members. His subject was "Graphic Instruments in War Of Science". There must have been some sort of hanky panky going on, because the following week, Al Huber of the Indiana State Police was to talk on "Fingerprinting and Identification." To take care of those wanting to hear the ever popular Bob Kryter with his talk on "The Atomic Bomb" the auditorium of the World War Memorial was secured. The meeting was well attended by the members and their guests, and they were treated to the Hal fine talk by Mr. Kryter.

John Reinhartz, an emissary of RCA, was in town, and talked to the club on late tubes and gear. Van Sickle Radio sponsored the meeting, and pop and sandwiches were served after the meeting.

Industrial Development Engineering Associates (IDEA), then located at 4125 E. Tenth St. offered in an ad in Ama-Chewer to dispose of a large assortment of parts and equipment. Ott Walters, W9YOT, (now in Calif. and apparently up and around after a very severe injury in an auto accident) was reported to have a new harmonic at his QTH. The 522 s war surplus gear were being used on 2 meters and W9YOT, W9QLU, W9TEK, W9ASM, W9HNS, W9GYX, and W9APJ were being heard regularly.

Under a W9JPX suggested heading of "Did You Know?" the following items were listed. Did you know that the first xtal controlled xmtr in town was Fred Finchout, W9CLO, followed by W9CRV, Charlie Soltan, and in turn by W9DSG, Bill Lueth (now W9AI.)

In addition to the above did you know that at one time in the distant past one local ham said, "The darn thing won't work, a poker chip will do as well." These words from D.J. Angus, W9CYQ, who later used them and found that they did work. -de W9DNQ

We left Indianapolis Wednesday night April 3rd at 10:00 P.M. on a Delta flight for Miami and had no problems with the considerable baggage. Left Miami on Thursday morning April 4th at 8:00 A.M. for San Juan and then to Sint Maarten. Jose met us in Sint Maarten and took us to the very plush Little Bay Beach Hotel. Jose and his friends helped us connect up the equipment and install antennas, and we were on the air by 5:00 P.M. Friday afternoon. Jose and I went to the French side for the FG7TI/FS7 set up, and found that their 220v. was split 440v. and no ground. Bad news for the US equipment. Had to have additional power xfrms and auto xfrms to get c.t. ground for SR-2000 and HW-32. We could only use the SR-2000 rcvr because of pwr output limitations (French) and the lights dimmed when the HW-32 was in xmt.

The band was a continuous pile-up when we got on, but we had wonderful co-operation from all hams. The very high score at PJ5MM was due to three xmtrs and three ops, and hard work with little sleep. The very high score at FG7TI/FS7 was due to Jose, PJ2MI who speaks four languages and is an excellent operator. Jose, PJ5MM established a 158 contact per hour rate, but worked only W's. All averaged 115 to 130 when band was hot. Not much time for fun because the contest was over at 8:00 P.M. Sunday night and we had to get packed, sleep, and leave at 10:00 Mon. morning. Everybody said this was the best time of their lives, and I am going to buy some property for a permanent PJ5MM location.

After returning home I took two days to rest and filled out about 700 QSL cards and mailed. (Boy, the foreign postage is high, 15¢ S. Amer., 20¢ Europe, and 25¢ Asia.)

Rcvd many nice comments on trip and fellows who didn't work us. Also \$6.00 so far in cash and a few IRC, but this doesn't cover postage.

de K9GCE Joe

Dispatch from the Desert

Rudy Crandall, W9WKE, has given his KW rig, an AM job, to Marian College, where it will be used by the Physics Dept., and later as the college club station when a club is organized. Rudy will operate on SSB in the future.

-de W9BR

Bob Osterhaus, W9PSE has his new 16 meter gear on the air, and Frank Fitch, W9EJW, is well on the way. W9JJC and W9BS are the laggards, and still are not on, but with weather getting good enough to get out and work on a day, will probably be on in the near future.

Art Schultz, W9BR, presented a paper on Radio Astronomy before the Indiana Astronomical Society on April 13th at Indiana Central College. With some arm twisting we might get Art to give this program to the Radio Club.

The Disciples Amateur Radio Fellowship will have a rig on the air Saturday, April 27th at 10:00 A.M. E.S.T. at Salina, Kansas on 14282 Kcs. with the call W9NFP. Also W9JXQ will be on at Pekin, Illinois and either WA9CKE or W9KRV at Hammond, Indiana.

A little late to mention it, but how many of you saw the article in Lowell Nussbaum's column of Oct. 29, 1967? The article mentioned the fact that Art Schultz was to teach a course in electronics to the Sisters at the Carmelite Monastery. How many prospective hams did you end up with, Art?

Don't forget the Hoosier 500 award. Those of you who like wallpaper see Bob Caskey for details on this worthwhile award.

Be thinking about the Indianapolis Radio Club Outstanding Amateur of the Year Award. Story elsewhere in this issue

Wickenburg, Arizona-- Reports that I have fallen down a prairie dog hole or been carried off by a jack rabbit are strictly unfounded rumors. The truth is that I've been pretty cotton pickin' busy during the past year and have been neglecting my promise to keep you IRC members posted on what's going on out here.

Lucy and I moved to Phoenix a little over a year ago to try city living, but then decided to return to Wickenburg and once again enjoy the peace and quiet of this friendly town. So last fall, we bought the house which we had rented here before and moved back right after last Christmas.

While in Phoenix, I fell into a job as public relations representative for the Sperry Flight Systems Division of the Sperry Rand Corp. (How's that for a long company name?) The plant is located several miles north of Phoenix and is principally engaged in manufacturing auto pilots and flight instruments for a large number of air liners, plus executive and military aircraft.

Those of you who recall my interest in electronics and aviation probably realize I'm enjoying very much working for a company that is deeply involved in both fields. Since the plant is located near the highway going to Wickenburg, I'm able to commute to work easily, completely avoiding all city driving. So, I'm now a cityfied desert rat, or something of that kind.

Besides cranking out news releases and special articles at my job at Sperry, I've been keeping the typewriter warm whenever possible at home by writing free lance articles. I'm writing a ham radio column for Radio-TV Experimenter Magazine, for which I've written several other "construction" articles lately. I'm also doing a monthly ham column for the Arizona Republic, which is the Phoenix morning newspaper.

Cont. on page 8

Dispatch from the Desert
Cont. from page 7

While in Phoenix, I didn't put the beam back up, and so lost contact with the Indpls. gang I had worked on 20 meter CW from Wickenburg. I did put up a 40 meter dipole there, however, and worked the former W9APJ a couple of times, plus numerous other stations around the country as time permitted. Also while in Phoenix, I put on the air a GE Progress line 2 meter FM base station similar to the mobile I already had in operation.

After buying the house in Wickenburg, I located a used 50 foot tower at a bargain price in Phoenix and got a ham friend with a pick-up truck to bring it up to Wickenburg. I haven't put it up yet, but hope to do so before long so I can resume some 20 meter operation with you guys back there.

The 2 meter FM base station is in operation here with a temporary antenna about 40 feet up, and I am able to work mobiles in Phoenix, about 50 miles away, with it. A new club has been formed in Phoenix to set up a 2 meter FM repeater which hopefully will be on the air in a few weeks. It will be on a TV tower which is atop a mountain just south of Phoenix and should provide some excellent coverage for a sizeable area of Central Arizona. The repeater input frequency will be 146.34 Mcs. and the output frequency will be 146.94 mcs.

I've been reading the weather reports from Indiana with great interest this past winter. Every week or so, I shed a tear for you guys who had to shovel snow. The only snow I've seen this year was what I saw on distant mountain peaks. That's where snow belongs.

You probably read last December that Arizona got lots of snow. That was all in the northern part of the state, where elevation is much higher than here. We have had quite a bit of rain here, which has made the

Cont. on page 9

Cont. from page 8

desert very green. Anyone who thinks the desert is a dry, barren wasteland where nothing grows, should see it now.

The snow upstate is melting now and some of the resulting water is draining down streams and rivers around here, adding moisture to the soil. Even the Hassayampa River (you may recall it from the color shots I sent Alvey last year) through Wickenburg, now has water in it. Sometimes it's dry the year around, but not this year.

Temperatures are now in the 80 s in the daytime, and around 40 to 50 at night. Sorry about that, fellows.

Well, this article has been much too long, but I just couldn't get the typewriter turned off. (Ed. note- Not at all Marsh, keep up the good work.) If any of you guys get out here, be sure to rest a spell in Wonderful Wickenburg.

73,

Marsh W7DQS

Ray Forbes, W9HNS, reports that Amateur Examinations will be held May 16th here in Indianapolis. Better be hittin' that license manual, if you intend to try for a ticket.

Look on page 85 of the April issue of CQ for pix of Les Bannon W9ZTD, described as one of the top guns of the newly formed Indianapolis DX Association. (How about some news from you guys?)

Don't forget the Dayton Hamvention to be held April 27th at Wampler Arena Center, Dayton, Ohio.

The Michigan State A.R.R.L. Convention will also be held April 26th and 27th at Lansing, if you feel like a little longer trip.

The best thing to do, when you come to the end of your rope is tie a knot, hang on like crazy.

WA9QIF, Gary Lucas reports that the Purdue Radio Club, W9YB now has a 432 A.T.V. rig on the air along with Collins gear and RTTY.

NOODLE NUDGER

In place of the usual noodle nudger, I am going to use Art Schultz's antenna quiz. This quiz was given at the start and the end of Art's talk on Antennas at the March 22nd meeting.

- 1- Radio waves travel through space because they are carried by electromagnetic ether which fills all space? True False
- 2- Radio waves are generated whenever free electrons are accelerated? True False
- 3- In a dipole antenna, when used for transmitting, the electrons travel from the center connection out to either end and back to the center? True False
- 4- Two vertical antennas are fed power in phase and are spaced one-half wavelength apart. Maximum power is radiated broadside to this antenna? True False
- 5- The polarization of a radio wave is determined entirely by the magnetic component of the radiated field? True False
- 6- Antennas having a very low angle of radiation are best suited for DX? True False
- 7- Parasitic antennas cause TVI? True False
- 8- The Quad antenna is such an efficient antenna because all four of its sides radiate energy while a Yagi radiates only from one dipole element? True False
- 9- An antenna tuner down in the shack will not help you to achieve a low SWR by tuning out mismatches between the antenna and the feed line? True False
- 10- The Conical Monopole antenna is a narrow band antenna and works best on the frequency for which it is cut? True False

Answer to last month;
Just a plain old bridge rectifier will do it. I had about four answers to this one.

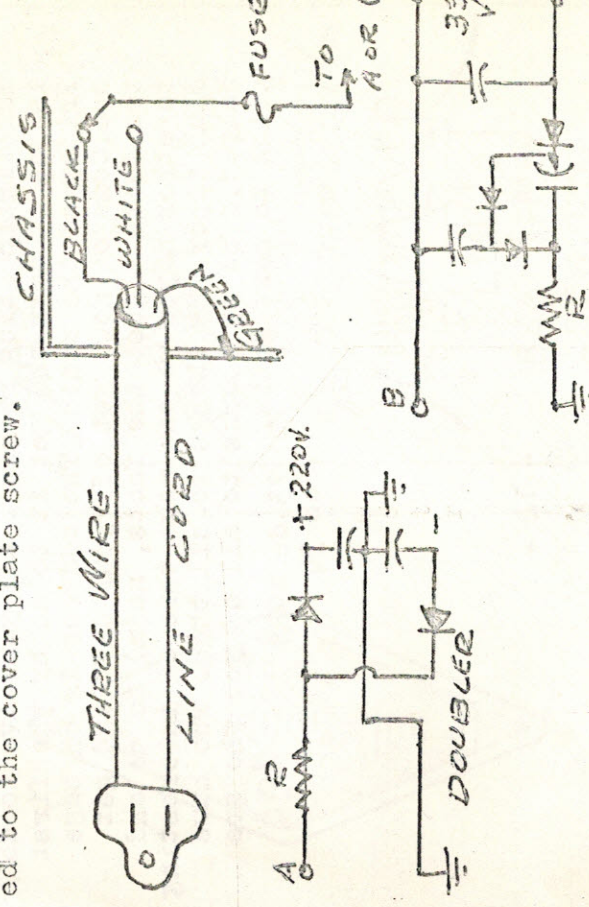
Tech Topics

Need a transformerless power supply, such as voltage doubler, tripler, or quadrupler to run a FM strip, a converter, or a small xmtr exciter? Normally this requires that one side of the 110 volt line be hooked to chassis ground. This could be dangerous, making the chassis hot to ground, if the line cord is not properly polarized each time it is plugged in.

We can overcome this difficulty by using a modern 3-wire line cord with a 3-prong plug, and a SPDT switch instead of the usual SPST line switch.

A look at the diagram shows that the chassis will always be at ground potential, with a direct connection to ground through the green wire in the cord to the wall outlet box, which is grounded. The SPDT switch sorta samples the two line wires, seeking the hot line for the on position. This on-off position may reverse if the polarity of the outlet is different at various locations, thus there is no need to check outlet polarity, you will always have on-off operation at the switch.

Three wire line cords may be used with old style 2-prong wall outlets by using an adapter, making sure the green wire is well grounded to the cover plate screw.



Harry Butler, W9OVF, reports working PJ5MM on both 20 and 40 meters, and also contacted FG7TI/FS7 twice on 20 meters during the WPX SSB contest. He says that many of the local DX gang contacted both stations on bands 10 through 40 meters. Harry also mentions in his note to me that Joe and Dave have slides of the trip and that we try to get a program at club from them. Sounds like a good idea to me, how about it fellows?

We were honored at the March 22nd meeting of the club with the presence of OZ7I, Fulmer Koodst of Denmark. Fulmer is here teaching and studying instructional methods at the Indiana University Medical Center. He is a medical doctor and an associate pharmacologist in his native country. He will be here several months, here is your chance to meet some real DX.

Don't forget Ama-Chewer is your paper, and is only as good as you make it. How about some contributions. I know that each one of you knows some worthwhile bit of news that would make interesting reading. All you have to do is jot it down and get it to me by the first Friday of the month. The address is on page one. Come on now, get off your duff and get the facts (just the facts, ma'am) to me and together maybe we can make this an interesting club paper. Mgr thanks to all those who have helped, and my thanks to all of you who are going to next month.

73 de W9BS
es 30

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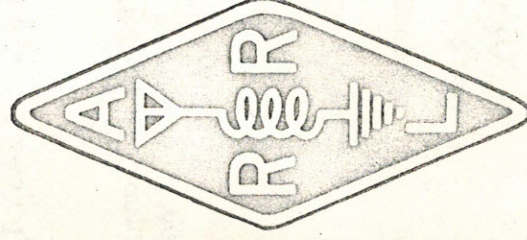
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